

IGB TIMELINE

2000

2002

2003

2004

2005

2006

2007

2008

2000-2015

Campus pioneers who have played a major role in the development of the IGB: Michael Aiken, Nancy Cantor, David Chicoine, Robert Easter, Peter Fox, Richard Herman, John Katzenellenbogen, Harris Lewin, Charles Miller, Gerald Shea, Shankar Subramanian, Carl Woese, Charles Zukoski

INSTITUTE FOR GENOMIC BIOLOGY APPROVED BY GOVERNOR RYAN	
STATE GOVERNMENT FUNDING FOR BUILDING PROJECT RELEASED	
HARRIS LEWIN NAMED FOUNDING DIRECTOR COMPETITIVE CAMPUS-	WIDE CALL FOR THEMATIC RESEARCH PROPOSALS; 9 APPROVED GROUNDBREAKING
CONSTRUCTION BEGAN A \$75M, 186,000-square-foot state-of-the-art facility FIRST TWO IGB GRANTS \$3M from the Dept. of Energy to study the effect of climate change on crops \$5M from the National Science Foundation for BeeSpace, an interactive environment for analyzing nature and nurture in societal roles	
\$14M IN NEW FEDERAL AND PRIVATE SUPPORT SECURED BY FACULTY	FACULTY RECOGNITIONS IN 2005 Theme leader Robinson elected to the National Academy of Sciences Woese elected to Royal Society
CONSTRUCTION COMPLETED November 2006 \$1.5M FROM THE ILLINOIS REGENERATIVE MEDICINE INSTITUTE For work on stem cell biology	
BUILDING DEDICATED March 29, 2007 \$500M EBI PARTNERSHIP ANNOUNCED Long and colleagues created first industry partnership: BP, University of California, Berkeley, University of Illinois at Urbana-Champaign and Lawrence Berkeley National Laboratory	
FIRST PATENT APPLICATION FILED EXTERNAL FUNDING REACHED \$2	NEW PROGRAM TO TEACH BUSINESS SKILLS TO LIFE SCIENTISTS LAUNCHED — The Certificate in Entrepreneurship and Management
FACULTY RECOGNITIONS IN 2008 - Wilfred van der Donk and Phillip Newmann Howard Hughes Medical Institute invest	

DNA is the language of all living things. Genomics, the study of the structure and function of an organism's complete set of genetic material, gives scientists a powerful tool with which to study every form of life and every biological process.

The Carl R. Woese Institute for Genomic Biology (IGB) brings together diverse experts to address formidable challenges using genomics. Since 2007, our Institute—an experiment in transdisciplinary research—has yielded many discoveries and scientific advancements, continually supporting the hypothesis that the whole is greater than the sum of its parts.

IGB members are drawn from a broad range of disciplines, including the life sciences, social sciences, engineering, law and business. They remain an integral part of home departments while pursuing collaborative

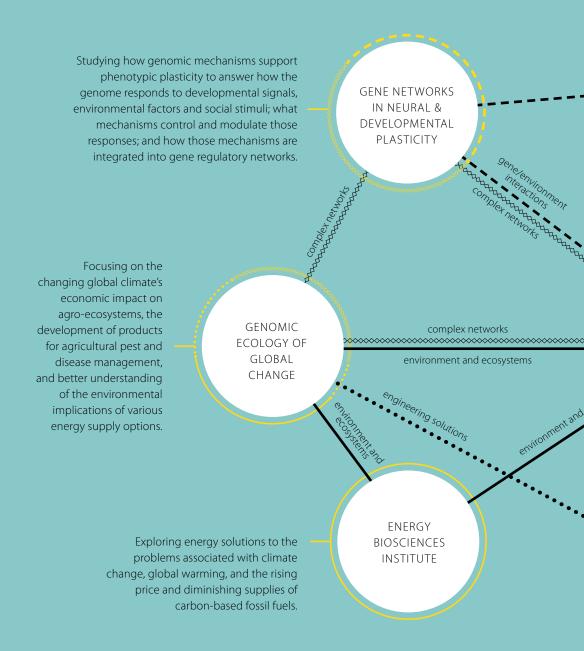
research projects in the Institute's state-of-the-art, \$75-million, 186,000-square-foot facility. Theme leaders help coalesce members into thematic research groups housed in large shared laboratories.

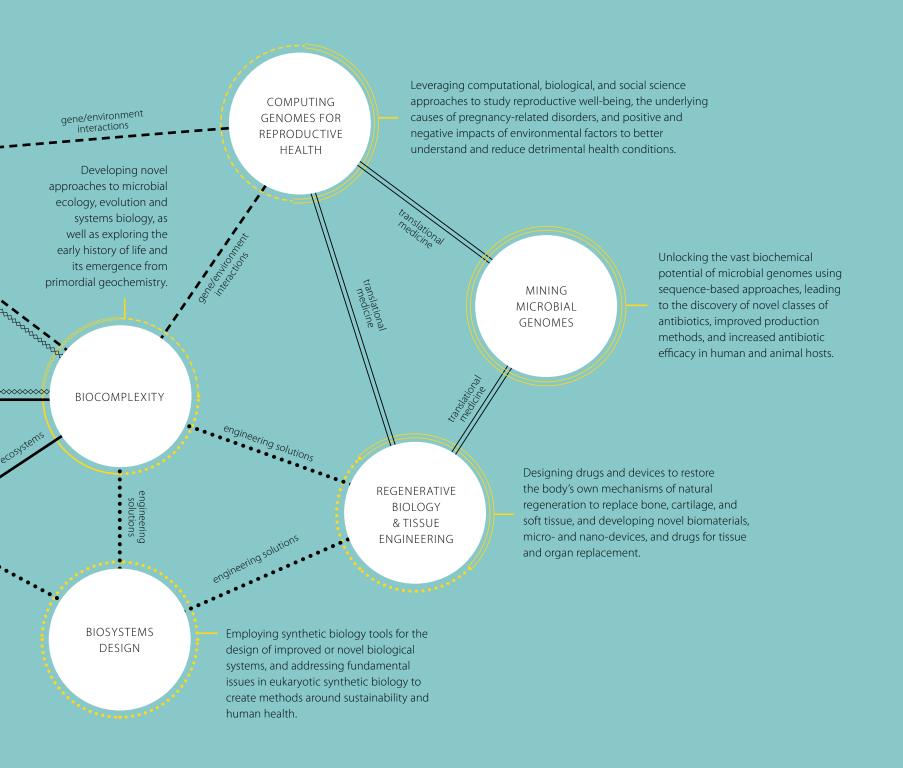
Through innovative outreach and education programs, the IGB invites people of all ages to learn about and participate in transdisciplinary research. The IGB hosts accessible, hands-on educational activities for children and their families, as well as workshops and events designed to engage groups through relevant genomic research.



The IGB—seven research themes and one externally funded institute.

Within these groups, IGB members address pressing problems facing society. As societal needs change and technology advances, Illinois researchers can propose new themes, allowing our Institute to evolve to meet new challenges.







IN THE LIFE SCIENCES

At the IGB, researchers are united by a common goal: to solve the pressing challenges faced by our global society, and build a better future for ourselves and for our planet.

The work of many IGB members explores **fundamental questions** in science, strengthening the foundation upon which advances in knowledge and technology are based. They have created intricate models of the molecules and reactions that drive the functions of a single cell, and created gene editing tools to improve those functions.

A growing area of research within the IGB focuses on **health and medicine**—discovering how disorders occur, and creating innovative technologies for their diagnosis and treatment. By studying how the genomes respond to many different factors, from the presence of microbes to childhood social stress, scientists may soon be able to predict and avert disorders before they appear.

Genomics provides a means to address the ailments of entire ecosystems. Several path-breaking efforts at the IGB are devoted to the development of sustainable **food and fuel** sources that are resilient to the stresses of global climate change.

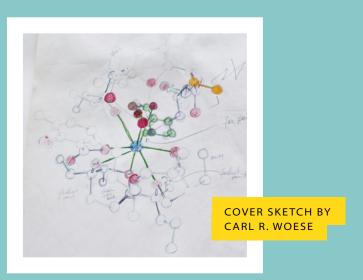
Zhao and Ort named AAAS Fellows by the 2009 FACULTY RECOGNITIONS IN 2009 ILLINOIS GOVERNOR PAT QUINN VISITED IGB American Association for the Advancement of Science Γ 2010 Theme Leader Goldenfeld elected to National Academy of Sciences | Lewin awarded Wolf Prize in Agriculture | FACULTY RECOGNITIONS IN 2010 CELLULAR DECISION-MAKING IN CANCER NAMED AS NEW THEME Gerlt and colleagues created Enzyme Function Initiative, to develop a strategy for discovering the functions of unknown enzymes discovered in genome sequencing projects The grant secured IGB and Beckman Institute form first 2011 \$50M GRANT FROM ABBOTT NUTRITION TWELVE PATENT APPLICATIONS FILED AND TWO PATENTS WERE ISSUED \$3.2M NATIONAL SCIENCE FOUNDATION INTEGRATIVE GRADUATE EDUCATION interdisciplinary cognition and nutrition support for as many as AND RESEARCH TRAINEESHIP (IGERT) GRANT AWARDED TO THE INSTITUTE research center in the country, the Center 30 graduate students FOR GENOMIC BIOLOGY AND THE SCHOOL OF INTEGRATIVE BIOLOGY IGB HOSTED FIRST SUMMER INTERNSHIP FOR NATIVE AMERICANS IN GENOMICS 2011-2016 for Nutrition, Learning, and Memory Long, Ort and colleagues lead Realizing Increased L 2012 \$25M GRANT FROM BILL & MELINDA GATES FOUNDATION ROBINSON APPOINTED DIRECTOR LEWIN ELECTED TO NATIONAL ACADEMY OF SCIENCES Photosynthetic Efficiency (RIPE) project Long elected to Fellowship 2013 COMPGEN INITIATIVE, \$2.6M NSF FUNDED PARTNERSHIP WITH IGB AND COORDINATED SCIENCE LABORATORY FIRST START-UP, "ACCELERATED GENOMICS" EXTERNAL FUNDING HITS \$37M FACULTY RECOGNITIONS IN 2013 of the Royal Society NEW BIOSYSTEMS DESIGN THEME CREATED 8 PATENT APPLICATIONS FILED, 3 PATENTS ISSUED Moore named Howard Hughes Berenbaum received 2014 11 PATENT APPLICATIONS, 4 PATENTS ISSUED KNOWENG CENTER OF EXCELLENCE IN BIG DATA COMPUTING FUNDED BY \$9.3M NIH BD2K INITIATIVE FACULTY RECOGNITIONS IN 2014 Medical Institute Professor | National Medal of Science | IGB OFFICIALLY RENAMED TO CARL R. WOESE INSTITUTE FOR GENOMIC BIOLOGY 2015 FIFTH YEAR OF ART OF SCIENCE EXHIBIT



CARL R. WOESE

INSTITUTE FOR GENOMIC BIOLOGY

WHERE SCIENCE MEETS SOCIETY



CARL R. WOESE INSTITUTE FOR GENOMIC BIOLOGY

1206 WEST GREGORY DRIVE, URBANA, IL 61801 217.244.2999 | INFO-IGB@ILLINOIS.EDU | WWW.IGB.ILLINOIS.EDU

